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Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

Date	Vol	Sec	Pages	Revised Date
2010/03/10	1	51	Cert of Compliance	
2010/03/10	1	51	Revised Description Page(s) 1,2	2013/11/15
2010/03/10	1	51	New Test Record T8	2013/11/15
2011/06/01	1	53	Cert of Compliance	
2011/06/01	1	53	Revised Description Page(s) 1,2,2A	2013/11/15
2011/06/01	1	53	New Test Record T8	2013/11/15

Project Number 4786128107.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at http://www.ul.com/global/eng/pages/corporate/contactus.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

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NBK File

CERTIFICATE OF COMPLIANCE

Certificate Number	20131118-E95463
Report Reference	E95463-20100310
Issue Date	2013-NOVEMBER-18
Issued to:	AMERICAN POWER CONVERSION CORP 132 FAIRGROUNDS RD PO BOX 278 WEST KINGSTON RI 02892
This is to certify that representative samples of	UNINTERRUPTIBLE POWER-SUPPLY EQUIPMENT See Addendum.
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1778 - Uninterruptible Power Supply Systems CSA C22.2 No. 107.3-05 - Uninterruptible Power Systems
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.
The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with “C” and “US” identifiers: c UL us the word “LISTED”; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	20131118-E95463
Report Reference	E95463-20100310
Issue Date	2013-NOVEMBER-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Uninterruptible Power Supply, Models SMX1500RM2U, SMX1500RM2UNC, SMX1000, SMX750. May also be followed by suffix BLK (indicating enclosure is painted black).

Models NMM1200RMJ1U, SMT1200RMJ1U, HTM1200RMJ1U, FJM1200RMJ1U, FJM1200RMJ1UQ FJM1200RMJ1U-M, FJM1200RMJ1U-MQ and SMT1500RM1U.

William R. Carney

William R. Carney, Director, North American Certification Programs

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Uninterruptible Power Supply, Models SMX1500RM2U, SMX1500RM2UNC, SMX1000, SMX750. May also be followed by suffix BLK (indicating enclosure is painted black).

Models NMM1200RMJ1U, SMT1200RMJ1U, HTM1200RMJ1U, FJM1200RMJ1U, **FJM1200RMJ1UQ** **FJM1200RMJ1U-M**, **FJM1200RMJ1U-MQ** and SMT1500RM1U.

GENERAL CHARACTER:

The equipment has the following features:

Cord connected
Batteries internal to UPS
An external battery pack (extended Run Module) available for the SMX series
Removable Network Controller Card available
Rack or Tower configuration (floor) mountable for the SMX series
Rack mountable only for the NMM series

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

The product covered by this report is an uninterruptible power supply intended to supply power to computers. It is provided with a power supply cord terminating in a parallel blade, grounding type attachment plug cap for connection to a 60 Hz source of supply. The unit is housed in a steel enclosure. It is also provided with eight (8) parallel blade, grounding type output receptacles, that are integral to the product's enclosure, for connection onto load devices. This unit is intended to be rack mounted or tower mounted.

USL indicates this unit was investigated under UL 1778, Fourth Edition", dated September 15, 2005.

CNL indicates this unit was investigated under CSA C22.2 No. 107.3-05 Second edition."

Electrical Ratings:

Model	Input	UPS Output	Total Current
SMX1500RM2U	120 V ac, 60 Hz, 12A	120 V ac, 1440VA, 50/60 Hz, 1200W	12A
SMX1500RM2UNC	120 V ac, 60 Hz, 12A	120 V ac, 1440VA, 50/60 Hz, 1200W	12A
SMT1500RM1U	120 V ac, 50/60 Hz, 12A	120V, 50/60Hz, 1440VA, 1000W, 12A	12A
NMM1200RMJ1U, SMT1200RMJ1U, HTM1200RMJ1U, FJM1200RMJ1U, **FJM1200RMJ1UQ** FJM1200RMJ1U-M **FJM1200RMJ1U-MQ**	100 V ac, 50/60 Hz, 12A	100V ac, 1200VA, 50/60 Hz, 1000W	12A
SMX1000	120 V ac, 60 Hz, 12A	120V ac, 1000VA, 50/60 HZ, 600W	12A
SMX750	120 V ac, 60 Hz, 12A	120 V ac, 750VA, 50/60 Hz, 450W	12A

Model Differences:

Models SMX1500RM2U and SMX1500RM2UNC are identical except for the inclusion of the optional Network Controller card in the SMX1500RM2UNC.

Models SMX1000 and SMX750 are identical to model SMX1500RM2U except for changes to the inverter due to lower power requirements. Also the SMX1000 and SMX750 each use different AVR transformers which are not used for isolation, different power cords and input choke.

Model NMM1200RMJ1U is electrically similar to SMX1500RM2U. The Power PCB and magnetics have been redesigned for 100V use and smaller 1U enclosure.

Models HTM1200RMJ1U and SMT1200RMJ1U are identical to Model NMM1200RMJ1U, except for model designation and front bezel is black.

Model FJM1200RMJ1U is identical to SMT1200RMJ1U, except for model designation.

Model FJM1200RMJ1U-M is identical to FJM1200RMJ1U, except the battery pack is not supplied with the unit. Battery pack is shipped separately.

Model SMT1500RM1U is the same as model NMM1200RMJ1U except for higher electrical ratings. Electrical components are identical.

Models FJM1200RMJ1UQ and FJM1200RMJ1U-MQ are identical to Models FJM1200RMJ1U FJM1200RMJ1U-M except for model designation.

TEST RECORD NO. 8

SAMPLES:

A sample of the Uninterruptible Power Supply as indicated below and constructed as described herein, was submitted by the manufacturer.

New Model FJM1200RMJ1UQ is the same as Model FJM1200RMJ1U. New Model FJM1200RMJ1U-MQ is the same as Model FJM1200RMJ1U-M.

GENERAL:

Test results relate only to the items tested.

Due to similarity of these devices to Listed UPS for this manufacturer, no tests were considered necessary.

The following tests were waived:

Test	File Reference	Report Date	Test Record No.
All	E95463	2010-03-10	1-7

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in the standard for Uninterruptible Power Supply Systems UL 1778, 4th edition, dated September 15, 2005, including revisions up to October 14, 2011 and CSA C22.2 No. 107.3-05, 2nd edition, dated September 15, 2005 including revisions up to February 2006 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Report by:

Daniel C. Maher
Senior Staff Engineer

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CERTIFICATE OF COMPLIANCE

Certificate Number	20131118-E95463
Report Reference	E95463-20110601
Issue Date	2013-NOVEMBER-18
Issued to:	AMERICAN POWER CONVERSION CORP 132 FAIRGROUNDS RD PO BOX 278 WEST KINGSTON RI 02892
This is to certify that representative samples of	UNINTERRUPTIBLE POWER-SUPPLY EQUIPMENT See Addendum.
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1778 - Uninterruptible Power Supply Systems CSA C22.2 No. 107.3-05 - Uninterruptible Power Systems
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.
The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with “C” and “US” identifiers: c UL us the word “LISTED”; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	20131118-E95463
Report Reference	E95463-20110601
Issue Date	2013-NOVEMBER-18

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Uninterruptible Power Supplies, Models SMX2000RMLV2U, SMX2000RMLV2UNC, SMX2200RMLV2U, SMX3000RMLV2U, SMX3000RMLV2UNC, FJX3000RMLV2U, FJX3000RMLV2UQ, SMX3000RMJ2U, SMX2200RMHV2U, SMX3000RMHV2U, SMX3000RMHV2UNC, HTX3000RMLV2U, FJX3000RMLV2U-M, NMX3000RMLV2U, NMX3000RMLV2U-M, SMX2000LV, SMX2000LVNC, SMX3000LV, SMX3000LVNC, SMX3000HVT, HTX3000RMHV2U.

USL, CNL – Accessory External Battery, Model SMX120RMBP2U, SMX120RMBPJ2U, SMX120BP.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Uninterruptible Power Supplies, Models SMX2000RMLV2U, SMX2000RMLV2UNC, SMX2200RMLV2U, SMX3000RMLV2U, SMX3000RMLV2UNC, FJX3000RMLV2U, **FJX3000RMLV2UQ**, SMX3000RMJ2U, SMX2200RMHV2U, SMX3000RMHV2U, SMX3000RMHV2UNC, HTX3000RMLV2U, FJX3000RMLV2U-M, NMX3000RMLV2U, NMX3000RMLV2U-M, SMX2000LV, SMX2000LVNC, SMX3000LV, SMX3000LVNC, SMX3000HVT, HTX3000RMHV2U.

USL, CNL – Accessory External Battery, Model SMX120RMBP2U, SMX120RMBPJ2U, SMX120BP.

GENERAL CHARACTER:

The equipment has the following features:

Cord connected
Batteries internal to UPS
An external battery pack (extended Run Module) available
Removable Network Controller Card available
Rack or Tower configuration (floor) mountable
Rack mountable

ELECTRICAL RATINGS:

Model SMX2000RMLV2U, SMX2000RMLV2UNC, SMX2000LV, SMX2000LVNC

Input: 100 V, 50/60 Hz, 16 A
Output: 100 V, 50/60 Hz, 16 A, 1600 W / 1600 VA

Input: 110 V, 50/60 Hz, 16 A
Output: 110 V, 50/60 Hz, 16 A, 1760 W / 1760 VA

Input: 120 V, 50/60 Hz, 16 A
Output: 120 V, 50/60 Hz, 16 A, 1800 W / 1920 VA

Input: 127 V, 50/60 Hz, 16 A
Output: 127 V, 50/60 Hz, 16 A, 1800 W / 2000 VA

Model SMX2200RMLV2U

Input: 100 V, 50/60 Hz, 16 A
Output: 100 V, 50/60 Hz, 16 A, 1980 W / 2200 VA

Input: 110 V, 50/60 Hz, 16 A
Output: 110 V, 50/60 Hz, 16 A, 1980 W / 2200 VA

Input: 120 V, 50/60 Hz, 16 A
Output: 120 V, 50/60 Hz, 16 A, 1980 W / 2200 VA

Input: 127 V, 50/60 Hz, 16 A
Output: 127 V, 50/60 Hz, 16 A, 1980 W / 2200 VA

Model SMX3000RMLV2U, SMX3000RMLV2UNC, SMX3000LV, SMX3000LVNC

Input: 100 V, 50/60 Hz, 24 A
Output: 100 V, 50/60 Hz, 24 A, 2400 W / 2400 VA

Input: 110 V, 50/60 Hz, 24 A
Output: 110 V, 50/60 Hz, 24 A, 2640 W / 2640 VA

Input: 120 V, 50/60 Hz, 24 A
Output: 120 V, 50/60 Hz, 24 A, 2700 W / 2880 VA

Input: 127 V, 50/60 Hz, 24 A
Output: 127 V, 50/60 Hz, 24 A, 2700 W / 3000 VA

Model FJX3000RMLV2U, **FJX3000RMLV2UQ**, SMX3000RMJ2U, FJX3000RMLV2U-M, HTX3000RMLV2U, NMX3000RMLV2U, NMX3000RMLV2U-M

Input: 100 V, 50/60 Hz, 24 A
Output: 100 V, 50/60 Hz, 24 A, 2400 W / 2400 VA

Model SMX2200RMHV2U

Input: 200 - 240 V, 50/60 Hz, 13 A
Output: 200 - 240 V, 50/60 Hz, 13 A, 1980 W / 2200 VA

Model SMX3000RMHV2U, SMX3000RMHV2UNC, HTX3000RMHV2U

Input: 200 - 240 V, 50/60 Hz, 16 A
Output: 200 - 240 V, 50/60 Hz, 16 A, 2700 W / 3000 VA

Model SMX3000HVT

Input: 208 V, 50/60 Hz, 16 A
Output: 208 V, 50/60 Hz, 16 A, 2700 W / 3000 VA

External Battery Pack Model SMX120RMBP2U, SMX120RMBPJ2U, SMX120BP.

Rated 120V DC, 20A

ENGINEERING CONSIDERATIONS:

The use of parenthesis is for engineering use only and not for factory representative.

USL indicates this unit was investigated under UL 1778, Fourth Edition, dated September 15 2005.

CNL indicates this unit was investigated under CSA C22.2 No. 107.3-05 Second Edition.

MODEL DIFFERENCES:

Models FJX3000RMLV2U and SMX3000RMJ2U are identical to Models SMX3000RMLV2U and SMX3000RMLV2UNC except for model designation and fewer Input/Output ratings.

The External Battery Pack Model SMX120RMBPJ2U is identical to the Model SMX120RMBP2U except for model designation.

The External Battery Pack Model SMX120BPU is identical to the Model SMX120RMBP2U except for model designation and chassis dimensions.

Models HTX3000RMLV2U, FJX3000RMLV2U-M, NMX3000RMLV2U, NMX3000RMLV2U-M are identical to the FJX3000RMLV2U. The model number change is for marketing purposes.

Model HTX3000RMHV2U is identical to Model SMX3000RMHV2U. The model number change is for marketing purposes.

Model FJX3000RMLV2UQ is identical to Model FJX3000RMLV2U except for model designation.

CONSTRUCTION DETAILS:

See also Section General.

Markings - As specified in Section General.

Internal Wiring - As specified in Section General.

Installation/Operating/Instruction/Safety Manual – Provided with each unit.

TEST RECORD NO. 8

SAMPLES:

A sample of the Uninterruptible Power Supplies as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

Model FJX3000RMLV2UQ is identical to Model FJX3000RMLV2U.

GENERAL:

Test results relate only to the items tested.

Testing of the Uninterruptible Power Supplies was not considered necessary based on the results of previous investigations.

Tests were considered covered as follows:

Test	File Reference	Report Date	Test Record No.
All	E95463	2011-06-01	1-7

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in the standard for Uninterruptible Power Supply Systems UL 1778, 4th edition, dated September 15, 2005, including revisions up to October 14, 2011 and CSA C22.2 No. 107.3-05, 2nd edition, dated September 15, 2005 including revisions up to February 2006 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Daniel Maher

Senior Staff Engineer

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